

SPECIAL PAPERS ON GENERAL METEOROLOGY.

RECENT ADDITIONS TO THE WEATHER BUREAU LIBRARY.

C. FITZHUGH TALMAN, Librarian.

The following have been selected from among the titles of books recently received as representing those most likely to be useful to Weather Bureau officials in their meteorological work and studies. Anonymous publications are indicated by a —.

Australia. Commonwealth bureau of meteorology.

Average rainfall map and isohyets of South Australia, Div. 2, Sect. 3. [Melbourne. 1911.] 76 $\frac{1}{2}$ x 64 cm. [Accompanied by a "Memorandum."]

Average rainfall map and isohyets of Victoria. [Melbourne. 1911.] 34 x 45 $\frac{1}{2}$ cm. [Accompanied by a "Memorandum."]

Austria-Hungary. K. k. Hydrographisches Zentral-Bureau.

Jahrbuch, v. 15, 1907. Wien. 1910. var. pag. f°.

Jahrbuch, v. 16, 1908. Wien. 1911. var. pag. f°.

Bergonié, J., editor.

Oeuvres inédites de J. de Romas sur l'électricité, publiées par les soins de l'Académie de Bordeaux, . . . avec une notice biographique et bibliographique par Paul Courteault. Bordeaux. 1911. viii, 306 p. 8°. [De Romas, a French contemporary of Franklin, is said to have anticipated some of the latter's ideas as to lightning and lightning protection.]

Bombay. Meteorological office.

Rainfall of the Bombay presidency for years previous to 1891 . . . by [H. A. Armstrong.] v. I. Bombay. 1910. [8], 956 p. f°.

Cirera, Ricard.

La prévision del tiempo, lo que es, lo que será. Dos conferencias. Barcelona. 1912. 48 p. 1 pl. 4°.

Recientes progresos de las ciencias astronómicas en España. Discurso inaugural. Madrid. n. d. 38 p. 8°.

Diercks, Heinrich.

Über die Helligkeit des Himmels in der Nähe der Sonne. Kiel. 1912. 47 p. 8°. (*Diss.-Kiel.*)

Eilert, Louis.

Meteorologische (Wetter-) Karte für Schulgebrauch. [Europa.] Berlin. n. d. 3 sheets, 118 x 90 cm.

Eredia, Filippo.

Il clima di Roma. Esame delle osservazione meteorologiche eseguite dal 1782 al 1910. Roma. 1911. 100 p. f°. (*Reprint:* Annali, Uff. cent. di met. e geodin. v. 32, 1910.)

Finland. Hydrografiska byrån.

Bidrag till Finlands hydrografi. II—Kymmeneälf och dess vatten-system. [German summary of v. 1.] Helsingfors. 1911. 3 v. f°.

Finland. Meteorologiske central-institut.

Erdmagnetische Untersuchungen in Finnland, Bd. 1, 1910. Teil 1: Absolute erdmagnetische Bestimmungen im Sommer 1910. Helsingfors. 1911. iv, 19 p. 1 pl. f°.

Meteorologisches Jahrbuch, Bd. 5, 1905, und Beilage. Helsingfors. 1911. f°.

Meteorologisches Jahrbuch, Bd. 6, 1906. Helsingfors. 1912. var. pag. f°.

Meteorologisches Jahrbuch, Bd. 10, 1910. Teil 2. Helsingfors. 1911. ix, 75 p. 1 map. f°.

Fortier, Samuel, & Beckett, S. H.

Evaporation from irrigated soils. Washington. 1912. 77 p. 8°. (U. S. Off. exper. sta. Bull. 248.)

Fuller, Myron L[eslie].

The New Madrid earthquake [1811-12]. Washington. 1912. 119 p. 10 pl. 8°. (U. S. Geol. surv. Bull. 494.) [Includes brief discussion of the meteorological relations of this earthquake.]

Hamburg. Deutsche Seewarte.

Jahresbericht über die Tätigkeit, 1911. Hamburg. 1912. [4] 37 p. 4°.

Hanzlik, Stanislav.

Die räumliche Verteilung der meteorologischen Elemente in den Zyklonen. Wien. 1912. [2,] 62 p. 5 pl. f°. (*Reprint:* Denkschr. math.-nat. Kl. kais. Akad., Wien. Bd. 88, pp. 67-128.)

Holland. K. Nederlandsch meteorologisch Instituut.

Jaarboek, 1910, A, B. Utrecht. 1911. var. pag. f°. Oceanographische en meteorologische waarnemingen in den Indischen oceaan, Juni, Juli, Augustus, (1856-1908). Kaarten. Utrecht. [1911.] [2] p. 25 charts. 37 x 50 $\frac{1}{2}$ cm. (Publication 104.)

Onwederen, optische verschijnselen, enz., in Nederland, 1909. Deel 30. Amsterdam. 1911. 151 p. 8°. (Publication 82.)

Hong-Kong observatory.

The China coast meteorological register, 1911. [Hong-Kong. 1911.] unp. f°.

India. Meteorological department.

Rainfall of India, 1910. Calcutta. 1911. var. pag. f°.

International meteorological committee.

Report of the 9th meeting . . . Berlin, 1910. London. 1912. 143 p. 8°. (Great Brit. Met'l. off. No. 208.) [Translation of the original edition in German.]

Jersey. Observatoire Saint Louis.

Bulletin des observations météorologiques, 18me. année, 1911. St. Hélier. 1912. [30] p. 4°.

Knight, Nicholas.

Nitrogen in rain and snow. [n. t. p.] 8°. (*Reprint:* Proc. Iowa acad. sci. pp. 75-77.)

Lima, João Maria d'Almeida.

Le climat de Lisbonne et sa variation. Lisboa. 1912. 31 p. ill. 4°. (Soc. de geogr. de Lisboa. Contribution pour le X congrès internat. de géographie, Rome.)

Lloyd's.

Annual report of the secretary . . . on the working of the commercial signal station at Cape Spartel, [1911]. [n. t. p.] [1912]. 7 p. 8°. [Table F presents monthly summaries of meteorological observations during 1911 at the station.]

Mawin, Charles Frederick.

Barometers and the measurement of atmospheric pressure. 4th ed. Washington. 1912. 110 p. 8°. (U. S. Weather bureau. Instrument div. Circular F. W. B. no. 472.)

Milham, Willis Ibister.

Meteorology. A textbook . . . for the student and general reader. New York. 1912. xvi, 549 p. 50 charts. 8°.

Modena. R. università. Osservatorio geofisico.

Osservazioni meteorologiche, 1909. Modena. 1911. [2,] 55 p. f°. (*Reprint:* Mem. acad. sci. let. arti. Modena, ser. 3. v. 10.)

Norway. Norges landbrukshøiskole [Aas].

Været paa Aas og temperaturmalinger i jorden 1910, ved Elizabeth Stephansen. Kristiania. 1912. 20 p. 8°. (*Reprint:* Høiskolens beretning, 1910-11.)

Nürnberg. Wetterwarte.

Kalender der meteorologischen und pflanzenphänologischen Eintagsstage für Nürnberg. [Nürnberg]. 1911. 1 sheet 29 $\frac{1}{2}$ x 23 cm.

Odessa. University. Meteorological observatory.

Annuaire de l'observatoire . . . 1910. [Russian.] Odessa. 1911. 221 p. 8°.

Ofia (Spain). Colegio maximo de la Compañía de Jesus.

Observaciones meteorológicas, 1911. 32 p. 8°.

Plassmann, J[osef].

Beobachtungen der neutralen Punkte der atmosphärischen Polarisation. Münster i. W. 1912. [2,] 44 p. 8°. (Wiss. Beilage, Programme k. Gymnasiums, Münster.)

Platania, Giovanni.

Il marrobbio, oscillazioni del mare nelle coste di Sicilia. Palermo. 1911. 7 p. 8°. (*Reprint:* Atti 7. Congr. geogr. italiano.)

Oscillazioni del mare nelle coste di Sicilia. Modena. 1911. 52 p. 8°. (*Reprint:* Boll. Soc. sismol. ital., v. 15, 1911, fasc. 6-7.)

Osservazioni dei punti neutri di Arago e di Babinet eseguite in Catania. n. t. p. 11 p. 4°. (*Reprint:* Atti, Accad. Gioenia di sci. nat. in Catania, ser. 5, v. 5.)

Ricerche sulle oscillazioni del mare nelle coste di Sicilia. Pisa. 1911. 11 p. 8°. (*Reprint:* Nuovo cimento, ser. 6, v. 2, 1911, Nov.)

Port-au-Prince (Haiti). Observatoire météorologique du Séminaire-collegé St.-Martial.

Bulletin semestriel, juillet-décembre, 1910. [Port-au-Prince]. 1911. pp. 71-150. f°.

Prussia. K. preussisches meteorologisches Institut.

Anleitung zur Messung und Aufzeichnung der Niederschläge.
8th ed. Berlin. 1912. 16 p. 4°. (Veröffentlichung No. 245.)
Ergebnisse der magnetischen Beobachtungen in Potsdam, und
Seddin im Jahre 1910, von Ad. Schmidt. Berlin. 1911. 33,
(24) p. f°. (Veröffentlichung No. 241.)

Rosenthal, E[lmari].

K voprosu o raspredelenii osadkov v gorakh, 1908 g. [The problem of the distribution of precipitation among mountains.] Sankt-Peterburg. 1909. 7 p. 8°. (Reprint: Zapiski imp. Ross. geogr. obsch. t. 47.)

Rudel, [Kaspar].

Mittelwerte dreissigjähriger Wetterbeobachtungen zu Nürnberg, 1881-1910. Nürnberg. n. d. 8 p. 8°.
Das Wetter zu Nürnberg im Jahre 1911. Nürnberg. 1912. 34 p. 8°.

Russia. Ministry of agriculture. Meteorological bureau.

Annalen der Landwirtschaftlichen Meteorologie. Bd. 1, Lieferung 2. Sommergetreide (Hafer, Gerste, Weizen, Hirse, Mais.) . . . 1908-09. [Russian, with t. p. in Russian and German.] St. Petersburg. 1911. vi, 52 p. f°.

Saint Louis university. St. Louis, Mo.

. . . The geophysical observatory, meteorological and seismological departments. St. Louis, Mo. [1912] 94 p. 8°. (Bull. April, 1912, v. 8, no. 1.) [Describes the ceraunograph and ceraunophone used at St. Louis university. Meteorological observations for 1911.]

Schreiber, Paul.

Sonder-Katalog für die Gruppe Klimatologie und Meteorologie der Internationalen Hygiene-Ausstellung, Dresden 1911. Dresden. 1911. 2 pts. 8°.

Sherier, Julius M.

Has deforestation affected the flow of the upper Mississippi? Davenport, Iowa. 1912. 10 p. 8°.

Smith, J. Warren.

The climate of Ohio. Wooster, O. [1912] pp. 185-[209]. 8°. (Ohio agr. exper. sta. Bull. 235.)

The relation between the precipitation over the watershed of the Ohio river above, and the stream-flow at Cincinnati. Washington. 1912. 40 p. 8°. (U. S. Weather bureau. Bull. 40. W. B. no. 471.)

Société astronomique et météorologique de Port-au-Prince.

Bulletin annuel, 1910. Port-au-Prince. 1911. 35 p. f°.

Southern Rhodesia. Agricultural department.

Report on meteorology for 1910. London. 1911. 22 p. f°.

Stackel, Paul.

Johann Albrecht Euler, [1734-1800]. (In Viertelj. naturfors. Gesellsch. Zürich, 55. Jahrg, 1910, 1-2 Hft. pp. 63-90. Zürich. 1910.)

Stewart, Charles.

Meteorological data of Spokane, Wash., for 30 years, 1882-1911. (In An. rpt., Spokane Board of health, 1911. n. p. n. d. unp. 8°.)

Stonyhurst college observatory.

Results of meteorological and magnetical observations. 1911. Liverpool. 1912. xvii, 57 p. 12°.

Tananarive. Observatoire de Madagascar.

Observations météorologiques, v. 22, 1910. Tananarive. 1911. vi, 273 p. 8°.

United Provinces of Agra and Oudh. Meteorologist.

Administration report, 1910-11. Allahabad. 1911. 4 p. f°.
Brief sketch of the meteorology, 1910. Allahabad. 1911. 7 p. f°.

United States. Department of agriculture.

Annual reports . . . for the year ended June 30, 1911. Washington. 1912. 1010 p. 8°.

U. S. Weather bureau.

Telegraphic code for meteorological observers at sea. 2d ed. Washington. 1912. 41 p. 4°.

Vaucluse. (France). Commission météorologique.

Compte-rendu pour l'année 1910. Avignon. 1911. 32 p. f°.

Wegener, Alfred.

Die Erforschung der obersten Atmosphärenschichten. Leipzig. 1912. pp. 104-124. 8°. (Reprint: Beiträge z. Geophysik. Bd. 11, 2/4 Hft.)

Wiesbaden. Meteorologische Station.

Ergebnisse . . . 1910. Wiesbaden. 1911. 54 p. 8°.

Woodbury, C. G., & Wellington, J. W.

Orchard heating. (Popular article). Lafayette, Ind. 1911. 7 p. 2 fig. 8°. (Purdue univ. Agr. exper. sta. Bull. 154.)

Yuriev (Dorpat). University. Meteorological observatory.

Sammlung von Arbeiten ausgeführt von Studenten . . . Redigiert von B. Sreznevskii. Band 4. Yuriev (Dorpat). 1911. 209 p. 8°. [Russian text, summaries in German.]

Zahn, Albert Francis.

Aërial navigation. A popular treatise on the growth of air craft and on aëronautical meteorology. New York. 1911. xvii, 497 p. 8°.

RECENT PAPERS BEARING ON METEOROLOGY.

C. FITZHUGH TALMAN, Librarian.

The subjoined titles have been selected from the contents of the periodicals and serials recently received in the Library of the Weather Bureau. The titles selected are of papers and other communications bearing on meteorology and other cognate branches of science. This is not a complete index of the meteorological contents of all the journals from which it has been compiled. It shows only the articles that appear to the compiler likely to be of particular interest in connection with the work of the Weather Bureau. Unsigned articles are indicated by a —.

Astrophysical journal. Chicago. v. 35. March, 1912.

Abbott, C[harles] G[reeley] & Fowle, F[rederick] E[ugene], Jr.
"On the best value of the solar constant." p. 92-100. [Reply to an article by F. W. Very.]

Cairo scientific journal. Alexandria. v. 6. February, 1912.

Nicolls, E. H. Memorandum on summer evaporation in Cyprus. p. 32-34.

Engineering news. New York. v. 67. March 7, 1912.

— Indicated and actual wind velocities. p. 454.

Franklin institute. Journal. Philadelphia. v. 173. April, 1912.

Nichols, Edward L[eamington]. Daylight. p. 315-332.

Nature. London. v. 89. March 21, 1912.

Mace, Herbert. The influence of weather on bees. p. 62-65.

Royal meteorological society. Quarterly journal. London. v. 38. January, 1912.

Harding, Charles. The abnormal summer of 1911. p. 1-31.

Larden, Walter. Notes on solar halos and on "Brocken" spectres. p. 33-39.

Dines, W[illiam] H[enry]. The statical changes of pressure and temperature in a column of air that accompany changes of pressure at the bottom. p. 41-50.

Hann, Julius. The meteorology of the Ben Nevis observatories. p. 51-62. [Translation.]

Sammadar, Jogindra Nath. Indian meteorology of the 4th century B. C. p. 65-66. [Some form of rain-gage probably used in India in the 4th century B. C.]

— North Sea gale, September 29 and 30, 1911. p. 72-73.

Royal society of South Africa. Transactions. Cape Town. v. 2, pt. 3. 1912.

Sutton, J[ohn] R[ichard]. A note on the land and sea breezes of South Africa. p. 293-300.

Scientific American. New York. v. 106. 1912.

Talman, C[harles] Fitzhugh. Little-known rainbows. A group of neglected optical phenomena. p. 305-306. [April 6.]

Talman, C[harles] Fitzhugh. The real Fata Morgana. What is known to-day about the famous phantom of the Calabrian coast. p. 335; 345-349. [April 13.]

Palmer, Andrew H. The late Abbott Lawrence Rotch. A pioneer investigator in aerology. p. 376. [April 27.]

— What we know about icebergs. How they are formed; their characteristics; how they drift; precautions to protect shipping against them. p. 377-378. [April 27.]

South African journal of science. Cape Town. v. 6. March, 1912.

Rudge, William Arthur Douglas. Observations of atmospheric electricity at Bloemfontein. p. 262-268.

Tokyo mathematico-physical society. Proceedings. Tokyo. 2 ser. v. 6. February, 1912.

Terada, T. Secondary undulations of tides caused by cyclonic storms. p. 196-201.

Académie des sciences. Comptes rendus. Paris. Tome 154. 11 Mars 1912.

Flajolet, —. Contribution à l'application de la télégraphie sans fil à l'étude et à l'annonce des orages. p. 729-731.

Baldit, A. Sur les charges électriques de la pluie au Puy-en-Velay en 1911. p. 731-733.

Cosmos. Paris. 61 année. 4 avril 1912.

— Installation de barrages électriques contre la grêle. p. 365.

Le Radium. Paris. Tome 9. Mars 1912.

Baldit, A. Nouvelles observations sur les charges électriques de la pluie en 1911, au Puy-en-Velay. p. 92-101.

Revue générale d'optique et de mécanique de précision. Paris. No. 2. Février 1912.

Perrin, J. L'anémocinémographe Richard. p. 31-35.

Meteorologische Zeitschrift. Braunschweig. Band 29. Februar 1912.

Wegener, Alfred. Über turbulente Bewegungen in der Atmosphäre. p. 49-59.

Hann, J[ulius]. W. H. Dines über die Ergebnisse der englischen Ballonaufstiege. p. 59-64.